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1.FLMAP: A fast lightweight mutual authentication protocol for RFID systems
Sadighian, A.; Jalili, R.;
Networks, 2008. ICON 2008. 16th IEEE International Conference on (1551-2641)
12-14 Dec. 2008. p.1
Source: IEEE Electronic Library Online
Show Abstract | Show In Clusters
Numerous authentication protocols for RFID systems were proposed as attack and monitoring, impersonation or cloning, and information leakage. Many essential requirements that one robust authentication protocol must guarantee mutual authentication protocol, called FLMAP, that overcomes all the drawbacks of the existing protocols.

protocols. Our protocol has three passes and it does not use any cryptography and encryption algorithms; it is very fast and efficient. Significant characteristics include security, tag anonymity, location privacy, resistance to disclosure attack, low cost and scalability. To the best of our knowledge, our protocol offers the most efficient mutual authentication protocols with respect to user privacy. In analyzing properties such as forward security and tag anonymity are guaranteed.

2.Online students supervision (OSS) systems using passive RFID
binti Abdul Kadir, H.; binti Mohd Kanafiah, S.N.A.; bin Abd. Wahab, M.I.
Electronic Design, 2008. ICED 2008. International Conference on (978-1-4244-2251-3) Dec. 2008. p.1

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

Automatic identification technologies have been used to reduce the time and cost of identification i.e. Barcode, smart card, radio frequency identification (RFID), biometric and facial recognition. Currently RFID has become one of the hottest technologies in many application i.e.; these include road tolls, bus and trains payment, security tags in airports. In Malaysia, the usage of this technology has not yet been expanded. To increase the identity in the working place, smart tag in PLUS highway and price tags in supermarket. In this paper, we present an overview on RFID, this study attempts to apply the technology in online student management system/university management system to monitor the interest group. The OSS system consists of a passive RFID system, database management system and online networking. When the student passes near the RFID reader, the system will record the data from the RFID tag to the database and sent online to the management for the supervision of students. This system allows the management people to monitor the availability of each student in the interest group, manage the management procedures, monitor the interest group movement automatically.

3.Tag Initiated Authentication Module for Fast and Efficient RFID Security
Hoon Ko; Yunseok Chang; Ramos, C.;

Mobile Ubiquitous Computing, Systems, Services and Technologies, 2008. ICUMST 2008. International Conference on (978-0-7695-3367-4)

Sept. 29 2008-Oct. 4 2008. p.362

Source: IEEE Electronic Library Online

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The RFID is one of the most important technique in ubiquitous for low power consumption, fast and safe authentication scheme for security. The existing scheme has been proposed for secure communication and it is hard to give efficient security to the authentication module. This paper proposes a new type of fast and lightweight authentication module that has better performance than existing scheme. The simulation results show the proposed scheme has enough security than existing scheme and can help enhancing the RFID authentication module.

4.The research of RFID middleware's data management model
Wang Yanyan; Zhao Xiaofeng; Wu Yaohua; Xu Peipei;

Automation and Logistics, 2008. ICAL 2008. IEEE International Conference on (978-1-4244-2251-3) Sept. 1-3 2008. p.2565

Source: IEEE Electronic Library Online

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With the development of RFID applications, the rapidly increasing number of users in the RFID system development and the RFID devices which adopt the different

RFID middleware becomes a very hot topic. RFID middleware is a new bridge which facilitates data communication between automatic identification equipment and applications. At the same time, the data of the application program are written in the tag. It is important to ensure application software security such as WMS, ERP. This paper proposes a model of RFID middleware to increase the data security and tag capacity and reduce the cost of middleware. Because the capacity of tag is limited, the store space of the card is limited. It is possible that the key table is very big in order to reduce the query speed. The paper proposed a encryption and adopted improved the transposition encryption. To increase the data security, the paper adopt LZW compression algorithm. The RFID middleware rapidly transmits data between different RFID devices.

5.security tag.

Computer Desktop Encyclopedia

7/1/2008. p.1

Source: Computers & Applied Sciences Complete

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See EAS and authentication token. [ABSTRACT FROM PUBLISHER]

6.Verifying the authenticity of chip designs with the DesignTag system

Kean, T.; McLaren, D.; Marsh, C.;

Hardware-Oriented Security and Trust, 2008. HOST 2008. IEEE International Conference on

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9-9 June 2008. p.59

Source: IEEE Electronic Library Online

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7.FLMAP: a fast lightweight mutual authentication protocol for RFID systems

2008.

Source: INSPEC

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8.Nanoparticles in forensic science.

2008.

Source: INSPEC

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9.Online students supervision (OSS) systems using passive RFID.

2008.

Source: INSPEC

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10.The research of RFID middlewarepsilas data management model.

2008.

- Source: INSPEC
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- 11.Thermochromism of bacteriorhodopsin and its pH dependence.
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 - Source: INSPEC
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- 12.Verifying the authenticity of chip designs with the DesignTag system.
2008.
 - Source: INSPEC
Show In Clusters
- 13.security tag.
Computer Desktop Encyclopedia
10/1/2007. p.1
 - Source: Computers & Applied Sciences Complete
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Arora, D.; Ravi, S.; Raghunathan, A.; Jha, N.K.;
Very Large Scale Integration (VLSI) Systems, IEEE Transactions on (106)
May 2007. Vol.15,Iss.5;p.546
 - Source: IEEE Electronic Library Online
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- As computer systems penetrate deeper into our lives and handle private data transactions of high monetary value, efforts to breach their security also as beyond an amateur hacker's play. Until now, security was always an after-the-updates to antivirus software, patches issued by vendors after software bugs. increasingly, we are realizing the need to incorporate security during the design of hardware. We invoke this philosophy in the design of a hardware-based system that monitors a program's data during execution. In this paper, we develop a general framework against a wide class of security attacks. Our work is based on the observation that the permissible behavior with respect to data accesses can be characterized by a hardware/software approach wherein such properties can be encoded as application-specific policies during program execution. These policies may be application-specific (e.g., rules about memory access to data structures), compiler-generated (e.g., enforcing that variables are accessed in a specific manner), or user-defined (e.g., rules about memory access to data structures). The proposed architecture is universal and can be applied to all programs (e.g., disallowing writes to unaligned memory locations). The proposed architecture can support such policies by: 1) enhancing the attributes of each datum as security tags that are linked to it throughout its lifetime, 2) using a hardware checker that interprets the semantics of the tags and enforces them, and 3) evaluating the effectiveness of the proposed architecture in enforcing various security policies. We have implemented the proposed architecture in an embedded system architecture and evaluated the effectiveness of the proposed architecture in enforcing various security policies. Our experiments in the context of the proposed architecture show that the proposed solution ensures run-time validation of application-defined security policies.
- 15.Architectural support for run-time validation of program data properties.
2007.
 - Source: INSPEC

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- 16.A design of authentication protocol for multi-key RFID tag.
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- Source: INSPEC
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- 17.Divisible e-cash systems can be truly anonymous.
2007.
- Source: INSPEC
- Show In Clusters
- 18.Source tagging-a viable solution to shoplifting?
2007.
- Source: INSPEC
- Show In Clusters
- 19.Tweaking TBE/IBE to PKE transforms with chameleon hash functions
2007.
- Source: INSPEC
- Show In Clusters
- 20.Metrologic Adds Sweepstakes, New Scanner.
Schell, Dan; Schell, Dan.
Business Solutions (1521-7027)
12/1/2006, Vol.21,Iss.11;p.16-16
- Source: Computers & Applied Sciences Complete
- Show Abstract | Show In Clusters | Duplicate Records
- The article reports that Metrologic launched the scanner called the MS718 promotion. The MS7180 Orbit CG is an omnidirectional bar code scanner and a single-line laser and has a power save mode. It also has an integrated tag deactivation. Metrologic also began its Life of Luxury Sweepstakes where people have to register by December 29, 2006 and for every purchase of any Metrologic scanner they get one sweepstakes entry.
- STIC Full Text Retrieval Options
- 21.Lionsgate doubles security tags.
Netherby, Jennifer.
Video Business (0279-571X)
11/20/2006, Vol.26,Iss.47;p.1-33
- Source: Computer Source: Consumer Edition
- Show Abstract | Show In Clusters
- The article reports that Lions Gate Entertainment Corp. will be the first to use both Sensormatic and Checkpoint electronic article surveillance tags on their new DVD releases. They will place the Sensormatic theft deterrent tag on DVD, and retailers place orders based on the security tags. Under the new system, all DVD will include both tags so that retailers can use either tag that works with their theft-deterrent system.
- STIC Full Text Retrieval Options
- 22.Chosen-ciphertext security from tag-based encryption.
2006.
- Source: INSPEC

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23. Enhancing security through hardware-assisted run-time validation of programs
Raghunathan, A.; Jha, N.K.; Ravi, S.; Arora, D.:
Hardware/Software Codesign and System Synthesis, 2005. CODES+ISSS International Conference on (1-59593-161-9)
Sept. 2005, p. 190

Source: IEEE Electronic Library Online

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The growing number of information

The growing number of information security solutions in embedded systems paradigms that consider security as a primary design objective. This is partly due to the fact that the security domain is a highly specific application domain, where the security solution should be customized to the needs of the system. In addition, the need to balance security with other design objectives such as cost, performance, and power. Due to the inherent complexity of the design process and the long duration of the design cycles of embedded software, most embedded systems present a high potential for security vulnerabilities that can be exploited by security attacks. Many attacks are initiated by causing a violation of security properties (e.g., data integrity, privacy, access control rules, etc.) associated with a "trusted" program or component, leading to a range of undesirable effects. In this work, we develop a general framework for ensuring security and privacy in embedded systems. Our work is based on the idea that the behavior of the system with respect to data accesses can be characterized by a set of rules that define the permissible behavior with respect to data accesses. These rules can be encoded as data access policies during program execution. These policies may be application-specific (e.g., enforcing that variables are accessed in a certain way), compiler-generated (e.g., enforcing that variables are accessed in a certain way), or user-defined (e.g., disallowing writes to unallocated memory). The proposed architecture can support such policies by (i) enhancing the hardware architecture to support security tags, (ii) providing a hardware checker that interprets the semantics of the tags and enforces them, and (iii) evaluating the effectiveness of the proposed architecture in enforcing various security policies. Our experiments in the context of the Si

24 Norprint in Queen's win.

PRINTING WORLD (0032-8715)

4/28/2005, Vol. 290, Iss. 4:p.11-11

Source: Computer Source; Consumer Edition

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This article reports that Norprint Labelling Systems has won a Queen's Award for Innovation for its Nortag system. The Nortag, which protects retail goods from theft, was recommended for its ability to offer retailers covert security, brand enhancement and also reduce costs. Norprint's technical director Gerrard Hancock has been leading the team since 1995. The lightweight security tag has recently been introduced to leading retailers as an alternative to traditional cumbersome and expensive hard tags.

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25. The Dr. Who Conundrum (vulnerability of security technology).
2005.

Source: INSPEC

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Electronic Design, 2008. ICED 2008. International Conference on (978-1-4244-2621-1)
1-3 Dec. 2008. p.1

Source: IEEE Electronic Library Online
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Mobile Ubiquitous Computing, Systems, Services and Technologies, 2008. ICUSST 2008. International Conference on (978-0-7695-3367-4)
Sept. 29 2008-Oct. 4 2008. p.362

Source: IEEE Electronic Library Online
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Automation and Logistics, 2008. ICAL 2008. IEEE International Conference on (978-1-4244-2621-1)
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Source: IEEE Electronic Library Online

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5.security tag.

Computer Desktop Encyclopedia

7/1/2008. p.1

Source: Computers & Applied Sciences Complete

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See EAS and authentication token. [ABSTRACT FROM PUBLISHER]

6.Verifying the authenticity of chip designs with the DesignTag system
Kean, T.; McLaren, D.; Marsh, C.;

Hardware-Oriented Security and Trust, 2008. HOST 2008. IEEE International Conference on, 2008, pp. 6-11, doi: 10.1109/HOST.2008.4590666

9-9 June 2008. p.59

Source: IEEE Electronic Library Online

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7.FLMAP: a fast lightweight mutual authentication protocol for RFID systems
2008.

Source: INSPEC

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8.Nanoparticles in forensic science.
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Very Large Scale Integration (VLSI) Systems, IEEE Transactions on (1062-267X)
May 2007, Vol.15,Iss.5;p.546
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- STIC Full Text Retrieval Options

- 15.Architectural support for run-time validation of program data properties
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Schell, Dan; Schell, Dan.
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22.Chosen-ciphertext security from tag-based encryption.
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Source: INSPEC
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Raghunathan, A.; Jha, N.K.; Ravi, S.; Arora, D.;
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Sept. 2005. p.190
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The growing number of information security breaches in electronic and computer systems has led to the development of new paradigms that consider security as a primary design objective. This is particularly important for embedded systems, where the security solution should be customized to the needs of the system. Unlike general-purpose computers, which have well-defined design cycles, the design cycles of embedded software, most embedded systems present a host of challenges. These challenges include the fact that the system may be exploited by security attacks. Many attacks are initiated by causing a violation of security policies such as data integrity, privacy, access control rules, etc.) associated with a "trusted" program. These policies are often encoded as data structures or compiler-generated (e.g., enforcing that variables are accessed only through pointers). Such policies are not universally applicable to all programs (e.g., disallowing writes to unallocated memory). However, the proposed architecture can support such policies by (i) enhancing the memory management unit to support security tags and (ii) adding a hardware checker that interprets the semantics of the tags and enforces them. We have evaluated the effectiveness of the proposed architecture in enforcing various security policies in a variety of embedded benchmarks. Our experiments in the context of the Si

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26. Enhancing security through hardware assisted run-time validation of pr 2005.

Source: INSPEC
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27.A lightweight mutual authentication protocol for RFID networks.
2005.

Source: INSPEC
Show In Clusters

28.Securing Layer 2 in local area networks.
2005.

Source: INSPEC
Show In Clusters

29.Graph Expo: Top Ten List.
Esler, Bill; Esler, Bill.
Graphic Arts Monthly (1047-9325)
11/1/2004. Vol.76,Iss.11:p.36-38
Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters | Duplicate Records
This article reports the highlights of the Graph Expo & Converting Expo held in Chicago. CEO Jim Dunn emphasized the importance of best practices. These are fast and implemented when Job Description Format--integrated machines start working in a fashion. Adopting best practices increases net productivity by as much as 30 percent. Presses are geared for one-pass, two-sided coating over five colors, and hybrid effects are in demand. Print moves in the course of these innovations, from marking up paper--to eye-popping, tactile, value-added product. Enhancements include finished stocks, security tag grants, holograms and random pantographs, glossy sheets, hybrid digital and conventional print, and mixing digital print and offset companies led the trade show. Flint Ink launched Progressive Color Media training, and Arrowstar inks, a worldwide brand of sheetfed inks promising new packaging applications.

STIC Full Text Retrieval Options

30.Terahertz tagging.
Fisher, Richard; Fisher, Richard.
Engineer (00137758) (0013-7758)
10/22/2004. Vol.293,Iss.7662;p.11-11
Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

Reports that researchers in Great Britain developed an anti-counterfeiting system that uses a scanner to unlock hidden information. Protection of high-value goods such as counterfeiting, Tamper-proof opaque plastic that covers a hologram or image. The microsystem technology group at the University of Glasgow, Scotland.

STIC Full Text Retrieval Options

31.An MPEG tolerant authentication system for video data
Uehara, T.; Safavi-Naini, R.; Ogunbona, P.;
Multimedia and Expo, 2004. ICME '04. 2004 IEEE International Conference
30-30 June 2004. Vol.2:p.891
Source: IEEE Electronic Library Online
Show Abstract | Show In Clusters
We propose a secure video authentication algorithm that is tolerant to visual compression to a designed level. The authentication process generates a ta

level of protection can be adjusted so that longer tags are used for higher security and distributed such that higher security is provided for regions of interest in the system. Authentication and verification can be largely performed as part of MPEG verification of the tag can be integrated into the compression system. Calculation and so made fast

32.Nanobarcodes particles as covert security tags for documents and products
Source: INSPEC
Show In Clusters

33.Novel online security system based on rare-earth-doped glass microbeads
2004.
Source: INSPEC
Show In Clusters

34.WANTED: SECURITY TAG TEAM.
Schwartz, Matthew; Schwartz, Mathew.
Computerworld (0010-4841)
6/30/2003. Vol.37,Iss.26;p.38
Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters | 2 Duplicate Records
Discusses the need for collaboration between information technology and security. Background on the vulnerability of the process systems and computer industries; Actions taken by Du Pont Co. to control process-control systems managing process-control hardware.
STIC Full Text Retrieval Options

35.Looking to the future
Dempsey, Kathy; Dempsey, Kathy.
Information World Review (0950-9879)
12/1/2002. Iss.186;p.24
Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

Geared toward a UK readership, briefly summarizes a number of new developments in the information industry. On the technology front, the buzz is all about personal reference, and many libraries are exploring ways to incorporate the use of barcodes into its own Radio Frequency Identification (RFID), which promises to make books easier to track. The RFID tag is like a super-charged barcode; as well as containing a unique ID, it is coded to hold other information and incorporates the security tag. On the horizon, the use of artificial intelligence in library automation systems looms large, not a popular development for librarians who have long upheld the traditional role of the library. Trends on the horizon for 2003 include artificial intelligence on library Web sites, possibly even in library automation systems.

36.Tag-based vision: assisting 3D scene analysis with radio-frequency tags
Boukraa, M.; Ando, S.;
Image Processing. 2002. Proceedings. 2002 International Conference on (Cat. No. 02CH37302). 22-25 Sept. 2002. Vol.1;p.I
Source: IEEE Electronic Library Online
Show Abstract | Show In Clusters

Radio frequency (RF) tags are growing popular for many industrial applications. We investigate the benefit of RF tagging in an application of 3D object security. We present a machine vision system that uses a RF Tag device to detect objects and characterize them. Laying the basis of an object model database knowledge-based recognition task where the information retrieved from the The recognition algorithm used is a matching with projective invariants. Our prefigures tag based applications where physical and logic representations

37.Time for change in pre-assembly? The challenge of thin chips

Kroninger, W.J.; Hecht, F.; Lang, G.; Mariani, F.; Geyer, S.; Schneider, L. Electronic Components and Technology Conference, 2001. Proceedings., 29 May-1 June 2001. p.1029

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

One of the most challenging tasks in pre-assembly, coming up in recent years, applications are standing on the horizon: Smart-cards (credit-card, telefon, price-labels), memory applications (stacks of thin memory-chips). Power-getting thinner. Several procedures have been suggested and are in some cases manufacturing thin chips. Most promising are cluster-tools, combining several equipment. We will look at the different process-flows and equipment-tools nowadays. Main aspect in judging these methods are compatibility between stability, quality and cost-effectiveness. According to product needs there be considered as best practice

38.Anvil to build security centres.

Leonardo, Albert.

ComputerWorld Canada (1195-6100)

5/18/2001, Vol.17, Iss.10;p.6

Source: Computer Source: Consumer Edition

Show Abstract | Show In Clusters

Reports that the Anvil Group and Cisco Systems have formed a security technology alliance to develop and market security systems centers in locations around the world. Cisco's provision of secure storage and protection of data; Anvil's outsourcing of sensitive security data STIC Full Text Retrieval Options

39.Time for change in pre-assembly? The challenge of thin chips. 2001.

Source: INSPEC

Show In Clusters

40.Asset protection takes center stage.

Gerard, Alexis; Gerard, Alexis.

Electronic Publishing (1097-9190)

6/1/2000, Vol.24, Iss.6;p.18

Source: Computers & Applied Sciences Complete

Show Abstract | Show In Clusters | 2 Duplicate Records

Focuses on online securitization of the assets of visual content owners in the brand product; Issues concerning brand control; Use of security tags in products disadvantages of deploying the security tag approach.

STIC Full Text Retrieval Options

41.Method and apparatus for detecting unauthorized distribution of data
Grube, G W; Markison, T W; Rybicki, M A; Grube, G W.

Method and apparatus for detecting unauthorized distribution of data
1/14/1997.

Source: Information Science & Technology Abstracts

Show Abstract | Show In Clusters | Duplicate Records

Unauthorized distribution of data within a wireless communication system gateway between the wireless communication system and a public data base system sends data to a requesting member of the wireless communication security gateway. As the security gateway is receiving the data, it is searching for a security tag is found, the security gateway determines whether the security base transmitting the data. If the security tag is not assigned to the particular identifies the particular data base as a potential unauthorized distributor of Inc.. Patent Number: 5594796.

42.Characteristics of electromagnetic security tag system.
1995.

Source: INSPEC

Show In Clusters

43.Keeping your PowerBook and data secure.

Lu, Cary; Lu, Cary.

Macworld (0741-8647)

6/1/1993. Vol.10, Iss.6;p.207

Source: Computers & Applied Sciences Complete

Show Abstract | Show In Clusters | Duplicate Records

Proposes preventive security measures to guard against computer theft. Similar Portable alarm systems; Camouflage; Cable-locks; Security tag systems; Protection through telecommunications, file transfers or fax image transfers; Network Protection against file recovery programs; Electromagnetic radiation; Other STIC Full Text Retrieval Options

44.High security tagging system for evidence marking and verification
Prokoski, F.J.; Riedel, R.B.; Coffin, J.S.;
Security Technology, 1992. Crime Countermeasures, Proceedings. Institute of Engineers 1992 International Carnahan Conference on (0-7803-0568-X)
14-16 Oct. 1992. p.86

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

Optically encoded tags can provide highly secure, inexpensive assistance in items including documents, containers, and parcels. An optically encoded producing the tag, means for affixing the tag, means for archiving the tag and provisions to restrict access to the archives, means for verifying the tag at prevent duplication or removal and reapplication of the tags, management authorized parties, and procedures to be followed when verification is successful its use in verification tagging applications, and mechanisms for production. The techniques developed are highly robust, in that they allow the pattern other masking effects as well as partial defacement without loss of identity.

distances, and the verification process itself will provide distance information purposes. Proof of principle has been demonstrated

45.We are approaching the year's peak period for theft so -- Tag your PCs.
Management Services (0307-6768)

10/1/1992. Vol.36,Iss.10;p.32-32

Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

The problem with laptops and calculators are that it is impossible to secure them with their merchandise. Personal computers are protected by a shield of metal which the casing de-tunes the target wherever it is placed. To solve his problem Koenig developed a security system called Stealth Tag. Like its aeronautical namesake the tag is passive. Security staff are alerted whenever a tagged item attempts to walk from the store. The sensors usually concealed in the ceiling panels detect any tag moving within its area. This problem is overcome by using a dual-frequency detection principle which Koenig has good reasons.

STIC Full Text Retrieval Options

46.Shoplifting spoils.

New Scientist (0262-4079)

4/27/1991. Vol.130,Iss.1766;p.31

Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

Informs that Security Tag Systems of Florida is filing patents in Europe on a system that the thief does not benefit from the item stolen. Possible use for clothing.

STIC Full Text Retrieval Options

47.Mini hi-tech security tag system.

Accountancy (0001-4664)

2/1/1991. Vol.107,Iss.1170;p.55-55

Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

The article introduces a security tag system, called Team 90, from Team Electronics. Companies concerned for the physical safety of their high-tech equipment are introducing the system to combat theft at the cost of a few pence for each item per day. Any attempt to carry an item past a series of points -- such as internal doors and building exits -- will both trigger an alarm and record which will film the thief in action.

STIC Full Text Retrieval Options

48.Architectural support of fine-grained secure computing

Bondi, J.O.; Branstad, M.A.;

Computer Security Applications Conference, 1989., Fifth Annual (0-8186-1989-8)

4-8 Dec. 1989. p.121

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

An architecture especially adept at security support is outlined. The architecture consists of a two-tuple, or ordered pair, consisting of a datum word and an associated unit. The two-tuple moves around through the architecture in unison as programmed. The subprocessor always operates on a security tag in synchrony with a fairly complex unit. The coupled subprocessors provide the overall security support.

multilevel-secure access control and flow control. The proposed architecture security technology along a unique combination of three fronts: (1) direct the-word mediation, and (3) optimal (minimal) result classification
